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TITLE: TEMPERATURE CONTROLLER FOR  
THERMAL PRINT HEAD

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INVENTOR-INFORMATION:

NAME

FUTAKI, KENJI

INT-CL (IPC): B41J003/20

US-CL-CURRENT: 400/54

ABSTRACT:

PURPOSE: To perform a temperature control of a thermal print head smoothly without adding a special function, by controlling the power source voltage to be applied to the thermal print head utilizing a voltage drop compensating function of the power source circuit.

CONSTITUTION: The temperature of a thermal print head

1 is detected with a  
temperature detector 2 and an output of a temperature  
detection circuit 3 is  
converted into an digital signal with an A/D conversion circuit  
4 to be  
inputted into an arithmetic processing circuit 5, which performs  
computation of  
a set voltage value corresponding to the detection  
temperature and the results  
are converted into an analog signal with a D/A conversion  
circuit 6 to be  
inputted into a thermal print head power source circuit 7,  
which controls the  
power source voltage to be applied to the thermal print head  
1 according to the  
signal inputted into the power source circuit 7. As the voltage  
to be applied  
to the thermal print head 1 varies, the heating value of the  
thermal print head  
1 changes to vary the temperature thereof 1 and the changes  
in the temperature  
is detected to be fed back with temperature detector 2.  
Thus, the temperature  
of the thermal print head 1 is controlled.

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Abstract Text - FPAR (2):

CONSTITUTION: The temperature of a thermal print head

1 is detected with a temperature detector 2 and an output of a temperature detection circuit 3 is converted into a digital signal with an A/D conversion circuit 4 to be inputted into an arithmetic processing circuit 5, which performs computation of a set voltage value corresponding to the detection temperature and the results are converted into an analog signal with a D/A conversion circuit 6 to be inputted into a thermal print head power source circuit 7, which controls the power source voltage to be applied to the thermal print head 1 according to the signal inputted into the power source circuit 7. As the voltage to be applied to the thermal print head 1 varies, the heating value of the thermal print head 1 changes to vary the temperature thereof 1 and the changes in the temperature is detected to be fed back with temperature detector 2. Thus, the temperature of the thermal print head 1 is controlled.

